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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/706877-Conf. #5816
				Filing Date	November 12, 2003
				First Named Inventor	FENTEANY
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	6	Attorney Docket Number	0042697.00137US8

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
[initials]	AA*	US-4,962,204	10-09-1990	Wambach	
	AB*	US-5,340,736	08-23-1994	Goldberg	
	AC*	US-5,453,502	09-26-1995	Aikins et al.	
	AD*	US-5,756,764	05-26-1998	Fenteany et al.	
	AE*	US-5,780,454	07-14-1998	Adams et al.	
	AF*	US-6,147,223	11-14-2000	Fenteany et al.	
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	AK*	US-6,660,268	12-09-2003	Palombella et al.	
	AL*	US-6,838,477-A1	06-26-2003	Schreiber et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number-Kind Code ² (if known)			
[initials]	BA	JP 60 135460	07-18-1985	Kawaguchi et al.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
[initials]	CA	AIKLAY, I. et al., "In vivo Stimulation of IκB Phosphorylation is not Sufficient to Activate NF-κB", <i>Mol. Cell. Biol.</i> , Vol. 15, No. 3, pp. 1294-1301, March 1995		
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[initials]	CG	CAINE et al., "A New Synthesis of 3-n-Butyl-4-bromo-5(Z)-(bromomethylidene)-2-(5H)-furanone, a Naturally Occurring Fimbrilide from <i>Delisia fimbriata</i> (Bonnemaisoniaceae)", <i>J. Org. Chem.</i> , Vol. 50, pp. 2195-2198, 1985		
[initials]	CH	CAVA, M. et al., "Thionation Reactions of Lawesson's Reagents", <i>Tetrahedron Letters</i> , Vol.		
Examiner Signature	[Signature]			Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/706877-Conf. #5816
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		Attorney Docket Number	0042697.00137US8
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	CJ	CHIDA et al., "Total Synthesis of (+)-Lactacystin from D-Glucose", <i>J. Chem. Soc./Chem. Comm.</i> , pp. 793-797, 1995	
CR	CK	CHIGR et al., "An Efficient Route to Aminoanthraquinones and Derivatives via a Diels-Alder Reaction", <i>Tetrahedron Letters</i> , Vol. 28, No. 39, pp. 4529-4532, 1987	
CR	CL	CHU-PING et al., "Identification, Purification, and Characterization of a Protein Acitvator (PA28) of the 20 S Proteasome (Macropain)", <i>J. Biol. Chem.</i> , Vol. 267, No. 16, pp. 10515-10523, 25 May 1992	
CR	CM	CIECHANOVER, A., "The Ubiquitin-Proteasome Proteolytic Pathway", <i>Cell</i> , Vol. 79, No. 1, pp. 13-21, 7 October 1994	
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CR	CO	COLLINS, T., "Biology of Disease, Endothelial Nuclear Factor- κ B and the Initiation of the Atherosclerotic Lesion", <i>Lab. Invest.</i> , Vol. 68, No. 5, pp. 499-508, 1993	
	CP	COREY et al., "Studies on the Total Synthesis of Lactacystin, an Improved Aldol Coupling ...", <i>Tetrahedron Letters</i> , Vol. 34, No. 44, pp. 6977-6980, 1993	
	CQ	COREY et al., "An Enantioselective Synthesis of (6R)-Lactacystin", <i>Tetrahedron Letters</i> , Vol. 34, pp. 6969-6972, 1993	
	CR	COREY et al., "Synthesis of (6R,7S)-Lactacystin and 6-Deoxylactacystin from a Common Intermediate", <i>Tetrahedron Letters</i> , Vol. 34, pp. 6973-6976, 1993	
	CS	COREY et al., "Total Synthesis of Lactacystin", <i>J. Am. Chem. Soc.</i> , Vol. 114, pp. 10677-10678, 1992	
	CT	COREY et al., "Total Synthesis of Lactacystin: An Enantioselective Synthesis of (6R)-Lactacystin: Total Synthesis of (+)-Lactacystin...", <i>Chemtracts-Organic Chemistry</i> , pp. 266-272, 1994	
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CR	CV	CURRAN, D. P., "Radical Cyclizations and Sequential Radical Reactions", <i>Comprehensive Organic Synthesis</i> , Vol. 4, pp. 779-831, 1991	
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	CB1	DEROANNE et al., (CA 110:13209), 1975 (Abstract Only)	
CR	CC1	DIDONATO J.A. et al., "Phosphorylation of I κ B α Precedes but is not Sufficient for its Dissociation from NF- κ B", <i>Mol. Cell. Biol.</i> , Vol. 15, No. 3, pp. 1302-1311, March 1995	
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	CE1	EL-ACHQAR et al., (CA 110:193343), 1989 (Abstract Only)	

Examiner Signature	<i>Chad Schwarz</i>	Date Considered	<i>12</i>
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Sheet	3	of	6	Attorney Docket Number	0042697.00137US8

CF1	EVANS, D. A. et al., Asymmetric Alkylation Reactions of Chiral Imide Enolates. A Practical Approach to the Enantioselective Synthesis of α -Substituted Carboxylic Acid Derivatives", <i>J. Amer. Chem. Soc.</i> , Vol. 104, pp. 1737-1739, 1982
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CI1	FAN et al., "Generation of p50 subunit of NF- κ B by processing of p105 through an ATP-dependent pathway", <i>Letters to Nature</i> , Vol. 354, pp. 395-398, 5 December 1991
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CL1	FENTEANY et al., "Inhibition of Proteasome Activities and Subunit-Specific Amino-Terminal Threonine Modification by Lactacystin", <i>Science</i> , Vol. 268, pp. 726-731, 1995
CM1	FIGUEIREDO-PEREIRA et al., "A New Inhibitor of the Chymotrypsin-Like Activity of the Multicatalytic Proteinase Complex (20S Proteasome)...", <i>J. of Neurochemistry</i> , Vol. 63, No. 4, pp. 1578-1581, 1994
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CP1	GALLINA et al., (CA 71:113238), 1969 (Abstract Only)
CQ1	GALLINA et al., (CA 76:139654), 1972 (Abstract Only)
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CV1	GRIFFITH et al., (CA 85:430000), 1976 (Abstract Only)
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CY1	HAMADA et al., "Stereoselective Total Synthesis of AI-77-B, a Gastroprotective Substance from <i>Bacillus Pumilus</i> ", <i>J. American Chemical Society</i> , Vol. 111, No. 4, pp. 1524-1525, 1989
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CB2	HANESSION et al., "Synthesis of a Conformationally Constrained Analog of <i>N</i> -Acetylmuramyl Dipeptide (MDP)", <i>Synlett</i> , Vol. 10., p. 222-224, 1991
CC2	HARUTA et al., "A Rapamycin-Sensitive Pathway Down-Regulates Insulin Signaling via Phosphorylation and Proteasomal Degradation of Insulin Receptor Substrate-1", <i>Molecular Endocrinology</i> , Vol. 14, No. 6, pp. 783-794
CD2	HATANAKA (CA 71:56785), 1969 (Abstract Only)
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CF2	HECK, R. F., "Vinyl Substitutions with Organopalladium Intermediates", <i>Comprehensive Organic Synthesis</i> , Vol. 4, pp. 833-863, 1991
CG2	HERDEIS et al., "Chiral Pool Synthesis of Trans-(2S, 3S)-3-Hydroxyproline and Castanodiol from S-Pyrogutamic Acid", <i>Tetrahedron: Asymmetry</i> , Vol 5, No. 1, pp. 119-128, 1994
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CI2	HOUGH et al., "Purification of Two High Molecular Weight Proteases from Rabbit Reticulocyte Lysate", <i>J. Biol. Chem.</i> , Vol. 262, No. 17, pp. 8303-8313, 15 June 1987
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CQ2	KAMETANI et al., "Studies on the Synthesis of Carbapenem Antibiotics, Stereoselective Synthesis of a Potential Intermediate for 6-Amido Carbapenem Antibiotics", <i>Heterocycles</i> , Vol. 20, No. 12, pp. 2355-2358, 1983
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CV2	KATZ et al. (CA 82:134374), 1975 (Abstract Only)
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EX2	KEFALIDES et al. (CA 84:119077), 1976 (Abstract Only)
CY2	KHOMUTOV et al. (CA 66:76280), 1967 (Abstract Only)
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CA3	KOGOOORI et al (CA 119:117095), 1993 (Abstract Only)
CB3	KOJIMA et al., "Two-Way Cleavage of Beta-Amyloid Protein Precursor by Multicatalytic Proteinase", <i>FEBS Letters</i> , Vol. 304, No. 1, pp. 57-60, June 1992
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CD3	KUMATORI, A. et al., "Abnormally High Expression of Proteasomes in Human Leukemic Cells", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 87, No. 18, pp. 7071-7075, September 1990
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Examiner Signature	<i>John P. ...</i>	Date Considered	12/4/06
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CJ3	MASON et al., "Proteasomes: The Changing Face of Proteolysis", <i>Chemistry & Biology</i> , Vol. 1, pp. 197-199, 1994	
CK3	MIYAMOTO S. et al., "Tumor Necrosis Factor Alpha-Induced Phosphorylation of I Kappa B Alpha is a Signal for its Degradation but not Dissociation from NF- κ B", <i>Proc. Natl. Acad. Sci USA</i> , Vol. 91, No. 26, pp. 12740-12744, December 1994	
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CP3	OMURA, S. et al., "Lactacystin, A Novel Microbial Metabolite, Induces Neuritogenesis of Neuroblastoma Cells", (Communication to the Editor), <i>The Journal of Antibiotics</i> , Vol. 44, No. 1, pp. 113-116, Jan. 1991	
CQ3	ORLOWSKI et al., "Evidence for the Presence of Five Distinct Proteolytic Components in the Pituitary Multicatalytic Proteinase Complex...", <i>Biochemistry</i> , Vol. 32, pp. 1563-1572, 1993	
CR3	<i>Pages of Calbiochem® Catalog for Clasto-Lactacystin β-Lactone (Cat. No. 426102) and Synthetic Lactacystin (Cat. No. 426100) as printed on 8 June 2003</i>	
CS3	PALOMBELLA et al., "The Ubiquitin-Proteasome Pathway is Required for Processing the NF-KB1 Precursor Protein and the Activation of NF-KB", <i>Cell</i> , Vol. 78, pp. 773-785, 1994	
CT3	PENROSE and MCBRIDE, "Proteasome-Mediated Degradation of the Papillomavirus E2-TA Protein is Regulated by Phosphorylation and Can Modulate Viral Genome Copy Number", <i>J. Virology</i> , Vol. 74, No. 13, pp. 6031-6038, July 2000	
CU3	PETASIS et al., "The Synthesis of Carbocyclic Eight-Membered Rings", <i>Tetrahedron Letters</i> , Vol. 48, No. 28, pp. 5757-5821, 1992	
CV3	PETERS, J., "Proteasomes: Protein Degradation Machines of the Cell", <i>TIBS</i> , pp. 377-382, 1994	
CW3	PHILIP et al. (CA 87:102614), 1977 (Abstract Only)	
CX3	PHILIP et al. (CA 87:68602), 1977 (Abstract Only)	
CY3	PINE et al., "Carbonyl Methylation Using a Titanium-Aluminum (Tebbe) Complex", <i>J. Org. Chem.</i> , Vol. 50, pp. 1212-1216, 1985	
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CA4	RYAN et al. (CA 97:163506), 1982 (Abstract Only)	
CB4	RZEPECKI et al. (CA 116:148544), 1991 (Abstract Only)	
CC4	SAVORY et al., "Reaction of Proteasomes with Peptidylchloromethanes and Peptidyl diazomethanes", <i>J. Biochem.</i> , Vol. 296, pp. 601-605, 1993	
CD4	SEEBACH, D. et al., "107. Stereoselektive Alkylierung an C(α) von Serin, Glycerinsäure, Threonin und Weinsäure über heterocyclische Enolate mit exocyclischer Doppelbindung, <i>Helv. Chim. Acta.</i> , Vol. 70, pp. 1194-1216, 1987	
CE4	SCHROCK, R. R., "Multiple Metal-Carbon Bonds. 5. The Reaction of Niobium and Tantalum Neopentylidene Complexes with the Carbonyl Function", <i>J. Amer. Chem. Soc.</i> , pp. 5399-5400, 23 April 1976	
CF4	SHEWRY et al. (CA 86:86180), 1977 (Abstract Only)	
CG4	SPERANZA et al., "Inhibition of Proteasome Activity Strongly Affects Kiwifruit Pollen Germination. Involvement of the Ubiquitin/Proteasome Pathway as Major Regulator, <i>Plant Physiology</i> , Vol. 126, pp. 1150-1161, July 2001	
CH4	STANDAERT et al., "Abstract", <i>Academic Development Program, Symposium, Merck</i>	
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